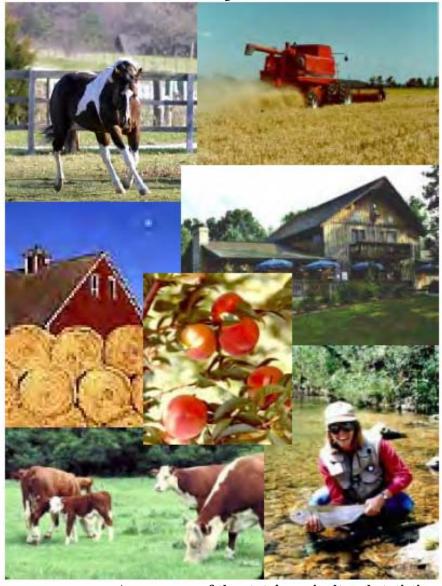
Missouri Agriculture a Statistical Snapshot



A summary of the state's agricultural statistics, including the Missouri Department of Agriculture's annual report 2003

The horse photo, located in the upper left corner of the collage on the cover, was taken by Julie Ray of Image Design Photos in Columbia, Missouri.

The horse is King Wimpy's Flash, an American Paint Horse.



Diversified is a word commonly used to describe agriculture in Missouri as the collage (left) highlights. Pictured clockwise from left: An American Paint Horse, a combine harvesting wheat, Blumenhof Winery in Dutzow, a fisherman at Windrush Farms, beef cattle, round hay bales, and a peach orchard.

"In Missouri, we have a highly diversified agricultural economy. Our producers range from large-scale international seed and poultry processing companies to small horticultural operations serving local farmers' markets. While each operation is unique to itself, all are interrelated."

Gov. Bob Holden World Agriculture Forum May 20, 2003

"We will continue to look for ways to partner with the private sector, university systems and the federal government on programs to promote agriculture, foster rural economic development and build the state's life sciences industry. The road ahead is bright, and I'm happy to be able to play a part in the future of Missouri agriculture."

Peter Hofherr Director of the Missouri Department of Agriculture July 8, 2003

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Missouri Department of Agriculture

The Missouri Department of Agriculture has represented the diverse interests of the state's vast agricultural industry since the mid-1800s. The department has the dual responsibility of protecting the state's producers, processors, distributors and consumers of food, fuel and fiber, while marketing Missouri products at home and abroad. Department programs focus on:

- Agriculture education
- Agriculture statistics
- Animals and animal products
- Business development
- Consumer protection
- Environmental issues
- Financial assistanceFuel quality
- Inspections, licenses and permits
- Marketing and promotion
- Missouri State Fair
- Pest management
- Plants, grain, feed and seed
- Small farm assistance





DirectorPeter Hofherr
573-751-3359

Deputy Director
Dave Dillon
573-522-1133

Office of the Director **Programs:**

Budget

Fiscal.

Grants Management

Human Resources

Information Technology

Policy and Planning

Public Affairs

Web site: www.mda.mo.gov

E-mail:

aginfo@mail.mda.state.mo.us

Office of the Director

Appointed by the governor and confirmed by the Senate, the director of agriculture:

- oversees the department's budget and operations;
- determines department policy;
- represents the administration on agriculture matters;
- enforces state agricultural statutes;
- monitors the success of the department's regulatory and promotional programs; and
- serves as a liaison to the governor, the state legislature, numerous agricultural and environmental organizations and the public.



Peter Hosherr (left), director of the Missouri Department of Agriculture, visits with the youth that showed Grand Champion animals at the 2003 Missouri State Fair in Sedalia, Missouri.

Office of the Director

Missouri State Milk Board

The director is a standing member of several boards and commissions, including the State Milk Board. The 12-member board administers the state's Grade A and manufacturing grade milk sanitation programs. The programs enforce sanitation and quality standards for



Missouri ranks 21st in milk production.

manufactured dairy products and

provide market testing of all milk at the first point of sale. The board licenses:

- milk procurers,
- manufacturing plants,
- field superintendents,
- testers,
- graders,
- samplers,
- bulk milk truck operators, and
- market testing laboratories.

Missouri Agricultural Statistics Service



The director's office also supports the operations of the Missouri Agricultural Statistics Service (MASS), a federal-state cooperative agency. MASS compiles and disseminates information about the state's agricultural industry, including

county agricultural profiles and crop, weather and livestock reports. The service also issues Missouri Farm Facts, the annual summary of the state's crop and livestock production, and conducts Missouri's portion of the national Census of Agriculture every five years.



Division DirectorDeanne Hackman
573-522-3454

Ag Business Development Programs:

AgriMissouri

Agriculture Innovation Center

International Marketing

Grape and Wine

Missouri Ag and Small Business Development Authority

Agriculture Development Fund

E-mail:

agrimo@mail.mda.state.mo.us

aginnovationcenter@ mail.mda.state.mo.us

Division of Ag Business Development

The Agriculture Business Development Division helps create opportunities for Missouri's farmers and agribusinesses by providing assistance in the following areas:

- capitalization
- business planning
- marketing
- industry development
- product and brand development
- organizational structures
- legal issues

AgriMissouri Program



The AgriMissouri Program unveiled its new logo at the 2002 Governor's Conference on Agriculture.

AgriMissouri is a branded program designed to increase the demand for agricultural products raised and processed in Missouri. The program, established in 1985,

represents more than 550 farmers, companies and farmers' markets statewide and plays a key role in increasing consumer recognition of Missouri agricultural products through retail, restaurant and foodservice channels.

Division of Ag Business Development

Agriculture Innovation Center

The Agriculture Innovation Center's primary objective is to enhance farm profitability through innovations in technology, marketing and economic organization. In addition to providing one-on-one assistance to producers interested in producing, marketing or processing their commodities in new ways, the center works with a wide variety of professionals involved in value-added agriculture.

International Marketing Program



Missouri Food and Fiber, Jefferson City, was one of 15 Missouri companies exhibiting at the 2003 U.S. Food Export Showcase, held May 4-6 in Chicago. The show draws more than 28,000 domestic and international buyers.

The International Marketing Program helps Missouri's farmers, agribusinesses, food processors and forest product companies develop and expand international marketing opportunities for their products. The program provides export counseling, market research, trade leads and opportunities to meet international buyers. The International Marketing Program also operates trade offices in Taiwan and Mexico.

Grape and Wine Program

Every year, nearly 1.5 million people visit Missouri's wineries to taste an array of award-winning wines. The Grape and Wine Program supports the grape and wine industry by promoting grape products, providing advisory services and conducting research. The program is funded by a tax on all wine sold in Missouri. A Wine and Grape Advisory Board provides recommendations on strategic issues and program operations.



The Missouri legislature declared the Norton grape the state's official grape in 2003.

Division of Ag Business Development

Missouri Agricultural and Small Business Development Authority

The Missouri Agricultural and Small Business Development Authority provides financial assistance to new and expanding producers through:

- tax credit programs that stimulate investment in new generation cooperatives and other rural enterprises that add value to agricultural goods;
- grants to finance projects that add value to agricultural goods;
- loan guarantees that provide financial back-up to institutions that finance livestock facilities and value-added projects;
- tax-free bonds issued to lenders making low-interest loans to beginning farmers; and
- direct loans for animal waste treatment systems and alternative agriculture enterprises.

Agriculture Development Fund

The Agriculture Development Fund supports a variety of financial assistance programs designed to aid rural Missouri residents and their communities. The fund provides for programs that help young people undertake crop and livestock projects and ventures that enhance Missouri's rural communities. The fund also finances college scholarships, loans for alternative farming enterprises, and the Missouri Agribusiness Academy, which acquaints high school students with the variety of careers available in agriculture.



The department's financial assistance programs benefit Missouri's rural communities, such as the one pictured here.



State VeterinarianDr. Taylor Woods
573-751-3377

Animal Health Programs:

Animal Care Facilities Act Program

Disease Control and Eradication

Food Safety

Foreign Animal Disease Surveillance

Livestock Quality
Assurance

Meat Inspection

Poultry Health

E-mail:

Animal_Health@mail.mda.state.mo.us

Division of Animal Health

The Animal Health Division, under the direction of the state veterinarian, protects and promotes Missouri's livestock industry. The division administers both mandatory and voluntary regulatory programs for beef and dairy cattle, horses, swine, poultry, sheep, goats, elk, and companion animals.

Animal Care Facilities Act Program

The Animal Care Facilities Act Program (ACFA) ensures dogs and cats, specifically those under the care of breeders, pet sitters, intermediate handlers, dealers, exhibitors, hobbyists, boarders, retail pet stores, animal shelters, rescue operations and municipal pounds, receive adequate care, shelter, health care and socialization.



The ACFA program's eight animal health officers rescued more than 100 abused and neglected dogs in 2002.

Division of Animal Health

Disease Control and Eradication



Beth Melton tests for animal health diseases at the Springfield Animal Health Laboratory.

The state's progress in national disease control and eradication programs is due to the cooperative efforts of livestock producers, markets, practicing veterinarians, other agencies and animal health staff, including those in the department's two diagnostic labs in Jefferson City and Springfield. Through these co-

operative efforts, Missouri has achieved bovine Tuberculosis Free status, swine Pseudorabies Stage V status, Pullorum-typhoid Clean status in poultry and is working toward Brucellosis-free status in cattle.

Livestock Quality Assurance, Food Safety and Foreign Animal Disease Surveillance

The division offers informative programs and publications on disease control, livestock quality assurance, food safety and foreign animal disease surveillance. The state's Meat and Poultry Inspection Program provides inspection services for processing plants and sanitary inspections of custom exempt processing plants.



The Animal Health Division's mobile response unit was developed to assist in the event of an animal disease emergency or bioterrorist attack.

The Division of Animal Health is also working to:

- establish a rapid response team for agriterrorism threats and foreign animal disease;
- expand the Chronic Wasting Disease surveillance program; and
- implement health passports to expedite interstate movement of equine.



Division DirectorRich Kaiser
573-751-5515

Grain Inspection and Warehousing Programs:

Grain Inspection Services

Grain Regulatory Services

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Division of Grain Inspection and Warehousing

The Grain Inspection and Warehousing Division works to protect the interests of grain producers, merchandisers, warehousemen, processors and consumers through two programs: Grain Inspection Services and Grain Regulatory Services.

Grain Inspection Services

Employees of the Grain Inspection Services program inspect, grade and weigh grain stored in or moved through terminals in Missouri. The program provides official inspection and weighing services to ensure that grain and rice are marketed at a fair value. Services are provided at inspection offices in Kansas City, Laddonia, Marshall, New Madrid and St. Joseph. The inspection offices provide standard quality determinations of test weight, moisture, foreign mate-

rial and damage. Chemical analysis tests are also provided to determine the protein and oil content of grain and to detect the presence of mycotoxins.



A department inspector pulls grain from a bin for testing.

Division of Grain Inspection & Warehousing

Grain Regulatory Services

Employees of the Grain Regulatory Services program protect the public interest by auditing grain warehouses and grain dealers to determine grain obligations and financial solvency.

The program enforces Missouri's Grain Warehouse and Grain Dealer Laws so producers are assured they are storing or merchandising their grain with licensed, bonded, reputable and financially stable grain businesses.



Show-Me State producers annually harvest up to 650 million bushels of grain valued at more than \$2 billion, making grain production one of the state's top industries.

The Grain Regulatory Services Program:

- licenses approximately 450 grain dealers and 200 warehouses with a capacity of more than 100 million bushels,
- annually conducts more than 800 audits and investigations, and
- administers the Missouri Agricultural Mediation Program, which provides mediation services to U.S.
 Department of Agriculture customers working to resolve disputes with USDA agencies.



Acting Division Director Loyd Wilson 573-751-2613

Market Information and Outreach Programs:

Market News

Outreach Program

Sustainable Agriculture Demonstration Award Program

E-mail:

MIO@mail.mda.state.mo.us

Division of Market Information and Outreach

The Division of Market Information and Outreach provides educational resources and market information. The division's goal is to improve the economic environment for Missouri producers and increase public knowledge and appreciation of Missouri agriculture.

Market News

Working closely with the U.S. Department of Agriculture, the division's market news staff reports prices from 20 livestock auctions and 15 grain markets in Missouri. Reports are also generated from direct sales and voluntary producer participation. The division also coordinates a timber price reporting pilot project based on voluntary producer participation.



Each year, the division hosts the Livestock Grading and Judging Contest and Workshop, which gives Missouri youth an opportunity to learn more about marketing live animals.

Division of Market Information & Outreach

Outreach Program

The Outreach Program provides information about Missouri agriculture and department services to urban, rural, farm and nonfarm audiences as a means of educating, informing, and engaging the public. The program's goal is to increase all Missourians' knowledge of the economic, historical, and social value of agriculture



Visitors to AgCitement at the Missouri State Fair learn about Missouri agriculture while playing with corn and soybeans.

through educational materials and participation in special events throughout the year. Such events include the Missouri State Fair, Earth Day at the Capitol and National Agriculture Week.

Outreach staff also work with rural Missouri youth to inform them about agriculture-related college degrees and careers. Outreach programs include:

- the Missouri Agribusiness Academy
- the Missouri Youth Livestock Grading and Judging Contest and Workshop
- Building Our American Communities grants
- college scholarships
- the FFA Marketing AgriMissouri Products Contest



The 2003 Missouri Agribusiness Academy takes a break during a trip to St. Louis. The academy acquaints high school students with careers in agriculture.

Division of Market Information & Outreach

The Market Information and Outreach Division serves as a liaison between the department and Missouri agricultural commodity associations. Division staff publish and distribute current information on the state's agriculture commodity groups, coordinate commodity merchandising council elections, and prepare proclamations.

Market Information and Outreach staff also educate producers about improving overall quality and market value of livestock in Missouri. Producers have the opportunity to participate in programs such as the Show-Me Select Heifer program and value-added calf programs.



Market Information and Outreach staff help producers get the most value out of their livestock through several educational and marketing opportunities.



The **Sustainable Agriculture Demonstration Award Program** provides grants to Missouri farmers to help them test, evaluate and adopt innovative, sustainable agriculture practices on their farms. Projects must reduce dependency on nonrenewable resources, while protecting and conserving natural resources.

Michael Lane, Hartville, received a Sustainable Agriculture Demonstration Award grant to build a passive underground freezer to store apples on his farm.



Acting Division Director Jim Lea 573-751-2462

Plant Industries Programs:

Bureau of Feed and Seed

Bureau of Pesticide Control

Bureau of Plant Pest Control

Bureau of Integrated Pest Management

Forest Resources Program

Fresh Fruit and Vegetable Inspection Program

E-mail:

Lisa_Wilde@mail.mda.state.mo.us

Division of Plant Industries

The Plant Industries Division:

- works to prevent the spread of harmful insects and plant diseases;
- certifies and licenses commercial and private pesticide applicators and dealers;
- assures label accuracy and quality of commercial feeds and seeds;
- inspects and certifies agricultural commodities for exporting; and
- inspects fresh fruits and vegetables to assure quality and grade.

The Bureau of Feed and Seed administers the Missouri Commercial Feed Law, which regulates the manufacture, distribution, and labeling of commercial feed products in the state. Random inspections, sampling, analysis, and label review of feed products and ingredients ensure that livestock producers

and pet owners receive the feed product guaranteed on the label.



Dennis Noring conducts a test on a feed sample at the Jefferson City feed and seed laboratory.

Division of Plant Industries

Under the Missouri Seed Law, the bureau regulates seed products offered for sale in the state. Analysts inspect, sample, and test seed and review labels to ensure the product meets the guarantees as to test date, origin, purity, and germination. The bureau also regulates interstate movement of seed with cooperation from the U.S. Department of Agriculture's Seed Regulatory and Testing Branch.

The **Bureau of Pesticide Control** monitors the sale and use of pesticides and promotes best management practices for using pesticides.

The bureau inspects:

- applicator use records,
- dealer sales records,
- certification credentials.
- applicator training records and
- pesticide sales at the retail, wholesale and producer levels.

In the past year, the bureau:

- administered 3,039 certification examinations,
- conducted more than 11,809 pesticide use investigations,
- licensed more than 34,334 applicators and dealers, and
- registered 11,525 pesticide products.



The department's Bureau of Pesticide Control inspects the use of pesticides by applicators such as the one pictured here.



An inspector examines the leaves of a plant infested with rosevirus.

The Bureau of Plant Pest Control works to prevent the introduction and spread of harmful insects and plant diseases through surveys and quarantines and annually inspecting and certifying nurseries and greenhouses. Agricultural exports are also inspected to ensure they meet the requirements of their destination country.

Division of Plant Industries

In the past year, the bureau:

- inspected and certified approximately 7,000 acres of nursery stock,
- issued more than 1,300 nursery dealer certificates, and
- granted more than 1,700 export certificates for more than \$200 million worth of goods.

The bureau's regulatory and educational efforts also work to keep Missouri free of the gypsy moth, a tree-eating pest that has the potential to strip entire forests. Each year more than 11,000 traps are placed throughout the state to prevent the gypsy moth from becoming established in Missouri.



Gypsy moth traps, such as the one pictured above, dot the landscape of the state's wooded areas during the summer months.

The **Bureau of Integrated Pest Management** administers the:

- Boll Weevil Eradication Program
- Organic Certification Program



The Boll Weevil Eradication Program works to prevent the pest from feasting on Missouri cotton.

The **Boll Weevil Eradication Program** coordinates the grower-funded effort to eliminate boll weevil populations from Missouri cotton fields. The program, directed by the Missouri Cotton Growers Organization and a nine-member board, is implemented through the efforts of the Southeastern Boll Weevil Eradication Foundation, Inc. The bureau acts as a liaison between the groups involved with the program, provides regulatory oversight and collects cotton grower assessments.

Division of Plant Industries



The **Organic Certification Program**, a new initiative accredited by the U.S. Department of Agriculture's National Organic Program, certifies organic producers and processors. This program also provides resources and contact information to producers interested in organics.

The Forest Resources Program administers the Treated Timber Law, which regulates the wood treating industry. Inspections are conducted throughout the state, and a variety of treated wood products are sampled to ensure Missouri consumers are purchasing quality products. The program also works with the annual gypsy moth survey and administers Missouri weed regulations.



An inspector takes a sample of treated fence posts.

The Fresh Fruit and Vegetable Inspection Program:



Mark Troup, coordinator of the Fresh Fruit and Vegetable Program, inspects a box of fruit.

- assures handlers of fruits and vegetables that their products meet USDA quality grades,
- administers terminal market inspections to help wholesalers gain restitution for products that fail to meet standards agreed to when purchased, and
- provides USDA grades for Missouri-grown produce.



State Fair Director Mel Willard 660-530-5600

State Fair Programs:

Fiscal Office

Business Office

Entry Office

Marketing

Off-Season Events/ Concessions

E-mail:

missouristatefair2@hotmail.com



The Missouri State Fair

The Missouri State Fair is the premier showcase of Missouri agriculture, as well as the state's industrial, mineral and cultural resources. Established in 1899, it is one of the oldest fairs in the country. The state fairgrounds occupy 396 acres in southwestern Sedalia, and many of the buildings are listed on the National Register of Historic Places.



A young visitor to the Missouri State Fair's AgCitement Center learns about agriculture by playing "Farmer for a Day."

Each year, hundreds of thousands of people take part in the fair's educational, competitive and recreational opportunities, while exhibiting all aspects of Missouri agriculture: livestock, row crops, farm equipment, fruits and vegetables, and arts and crafts.

Entertainment is also central to the fair. Many of the nation's top performers have played at the fair, which features a grand-stand facility, exhibition center and a half-mile dirt racetrack.

The Missouri State Fair Commission, appointed by the governor, oversees year-round operations.



Division DirectorRon Hooker
573-751-4316

Weights and Measures Programs:

Device and Commodity Inspection Program

Metrology Laboratory/ Moisture Meter Program

Petroleum/Propane/ Anhydrous Ammonia

Fuel Quality Program

E-mail:

Janet_Carel@mail.mda.state.mo.us

Division ofWeights and Measures

Known as the consumer protection arm of the department, the Weights and Measures Division protects buyers and sellers whenever goods and services are exchanged. The division:

- inspects commercial weighing and measuring devices;
- prevents unfair or deceptive weighing and measuring practices;
- provides precise calibration and metrology services;
- ensures fuel quality;
- inspects eggs for grade, size, origin and packaging; and
- ensures milk is not sold under cost.

The **Device and Commodity Inspection Program** ensures shoppers get what they pay for. Last year, program employees conducted:

- 3,798 egg inspections,
- 4,352 milk inspections, and
- 19,773 price verification inspections.



A Weights and Measures inspector tests the accuracy of a livestock market scale.

Division of Weights and Measures

Fairness and safety are the goals of the division's **Petroleum/Propane/Anhydrous Ammonia** and **Fuel Quality Programs**. Last year, field staff inspected more than 125,000 gasoline pumps for accuracy and 8,100 service stations and bulk plants for safety. The program cited more than 16,298 safety violations at service stations. Inspectors conducted more than 3,851 LP gas safety inspections at bulk plants, schools, nursing homes and other public, industrial and commercial facilities using and storing LP gas. The Fuel Quality Program maintained its record of keeping octane mislabeling low due to an aggressive inspection and testing program that performed more than 55,533 tests on more than 8,485 fuel samples.



State fuel inspectors Tim Musick (left) and Curtis Wall test a gasoline pump at one of the Lake of the Ozarks' 131 marinas. The two inspect all marinas throughout Missouri -- from the upper Mississippi River down to Bull Shoals Lake -- once a year. When they're not inspecting marinas, Musick and Wall join 18 other state fuel inspectors in inspecting Missouri's 125,000 gasoline pumps twice a year and collecting fuel samples to test for contaminants.

The Metrology Laboratory/Moisture Meter Program checks mass calibration accuracy. Last year, the program:

- certified more than 6,510 test weights and 157 volume measures,
- issued 471 metrology certificates and
- inspected 760 moisture meters.

Missouri Department of Agriculture: Financial Summary

	FY 2002 Appropriation	FY 2003 Appropriation	FY 2004 Appropriation
Office of the Director	\$7,531,269	\$8,541,565	\$7,126,046
Division of Ag Business Development	0	0	3,663,832
Division of Market Info and Outreach	0	0	876,966
Division of Market Development	4,065,109	3,681,004	0
Division of Animal Health	4,138,618	4,179,343	4,701,512
Division of Grain Inspection and			
Warehousing	3,328,526	3,307,315	3,335,618
Division of Plant Industries	3,812,614	3,208,321	2,866,009
Division of Weights and Measures	3,041,616	3,472,297	5,721,928
Missouri State Fair	5,105,616	4,900,450	4,875,262
State Milk Board	2,031,815	2,081,318	1,911,926
DEPARTMENT TOTAL	\$33,055,183	\$33,371,613	\$35,079,129
General Revenue	15,333,314	15,848,145	13,320,811
Federal Funds	1,656,235	3,263,590	5,875,382
Animal Health Laboratory Fee Fund	451,844	451,844	595,878
Animal Care Reserve Fund	417,983	322,235	606,369
Livestock Brands Fund	59,125	42,225	42,227
Commodity Council Merchandising	176 212	176 212	176.075
Fund Single Dumage Animal Equilities	176,212	176,212	176,975
Single-Purpose Animal Facilities Loan Program Fund	81,086	81,086	116,748
State Fair Fees Fund	4,196,817	4,201,817	4,285,644
Aquaculture Marketing Development	4,170,017	4,201,617	4,203,044
Fund	32,692	32,692	32,795
Livestock Sales and Markets Fees Fund	32,784	32,784	32,788
Apple Merchandising Fund	12,000	12,000	12,000
Livestock Dealer Law Enforcement	,	,	,
and Administration Fund	12,389	12,389	12,390
Milk Inspection Fee Fund	1,661,041	1,762,343	1,7,66,240
Grain Inspection Fee Fund	2,403,984	2,251,940	2,608,787
State Contracted Manufacturing			
Dairy Plant Inspection and			
Grading Fee Fund	8,000	8,000	8,000
Petroleum Inspection Fund	1,715,624	2,110,536	2,509,616
Petroleum Violation Escrow Fund	2,450,000	1,000,000	500,000
Marketing Development Fund	743,593	788,237	1,540,228
Agriculture Bond Trustee Fund	135,000	135,000	135,000
Boll Weevil Suppression and	602.204		
Eradication Fund	683,304	60,456	106,226
Missouri Wine Marketing Fund	15,000	15,000	15,000
Agriculture Development Fund	737,156	723,082	740,025
State Institutions Gift Trust Fund State Fair Trust Fund	30,000 10,000	30,000	30,000
	4 60.47	10,000	10,000
Full-time equivalent employees	400.4/	468.34	457.75

2003 Missouri Agricultural Summary

Issued Cooperatively by



MISSOURI DEPARTMENT OF AGRICULTURE

Peter Hofherr, Director P.O. Box 630 Jefferson City, Missouri 65102



U. S. DEPARTMENT OF AGRICULTURE

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August 2003

Missouri Agricultural Facts

Agriculture continues as a solid base for the economy of Missouri. The State=s 107,000 farms produced and sold about \$4.40 billion worth of crops, livestock, poultry and aquaculture in 2002, down 7 percent from 2001. Livestock and poultry accounted for about 52 percent of the agricultural output, down 5 points from 57 percent in 2001 while crops made up the other 48 percent of the total.

The wide range of climate, topography and availability of irrigation water in the State results in considerable variability in crops produced. Soybeans and corn are by far the dominant crops in Missouri, being particularly important in the northern half of the State and in the southeast(Bootheel). The Bootheel is the most intensively cropped area with its high percentage of tillable, level land, long growing season and plentiful irrigation water. Cotton and rice are predominant crops in some southeastern counties. Hay is the most widely produced crop, ranking third in total value in the State, although normally only about 10 percent of the hay is sold. Hay is easily the major crop in the southwest and south-central districts where tillable land is limited, while a major proportion of farms in the rest of the State also raise hay.

Missouri is one of the leading livestock states in the nation. Cow-calf production fits in with crop production on many farms across the State, but beef operations are of major importance in the central, southwest, and south-central districts. Hog production is also widespread, but especially concentrated in the north-central and west-central districts. Broilers and turkeys are dominant in the southwestern counties.

Note the importance of Missouri to the nation=s agriculture as shown by the following:

- * NINE percent of the U.S. TURKEYS are raised in Missouri.
- * SEVEN percent of the U.S. CATTLE OPERATIONS are in Missouri.
- * SIX percent of the U.S. SOYBEANS are grown in Missouri.
- * FIVE percent of the U.S. FARMS are in Missouri.
- * FOUR percent of the U.S. GRAIN SORGHUM is grown in Missouri.
- * FOUR percent of the U.S. HOG OPERATIONS are in Missouri.
- * Missouri is the SECOND leading state in BEEF COWS.
- * Missouri is the SECOND leading state in NUMBER OF FARMS.
- * Missouri is the SECOND leading state in HAY PRODUCTION (excluding alfalfa).
- * Missouri ranks SIXTH in RICE PRODUCTION.
- * Missouri ranks SIXTH in SOYBEAN PRODUCTION.
- * Missouri ranks EIGHTH in WATERMELON PRODUCTION.
- * Missouri ranks NINTH in CORN PRODUCTION.
- * Missouri ranks NINTH in COTTON PRODUCTION.
- * Missouri ranks TENTH in WINTER WHEAT PRODUCTION.
- * Missouri ranks TWELFTH in GRAPE PRODUCTION.
- * Missouri ranks THIRTEENTH in EGG PRODUCTION.
- * Missouri ranks SIXTEENTH in CASH RECEIPTS.
- * Missouri ranks SEVENTEENTH in MILK COWS.

Rank Among States, 2002

	I (di ii)	anong otates, 2002	•	
				Percent of
	Rank	Unit	Total	U.S. Total
General				
Farm Numbers	2	farms	107,000	5.0
Cash Receipts 1/	15	billion dollars	4.82	2.4
Crops				
Hay, excluding alfalfa	2	tons	6,460,000	8.4
Hay, all	3	tons	7,840,000	5.2
Sorghum, grain	4	bushels	15,725,000	4.3
Rice	6	hundredweight	11,011,000	5.2
Soybeans	6	bushels	170,000,000	6.2
Watermelon	8	hundredweight	1,326,000	3.4
Corn for grain	9	bushels	283,500,000	3.1
Cotton	9	bales	610,000	3.6
Cottonseed	9	tons	229,000	3.6
Winter wheat	10	bushels	34,200,000	3.0
Peaches (utilized commercial)	12	pounds	5,460,000	3.4
Grapes	12	tons	2,900	0.04
Tobacco	13	pounds	3,055,000	0.3
Apples (utilized commercial)	15	pounds	36,000,000	0.3
Oats	20	bushels	1,680,000	1.4
Alfalfa hay	21	tons	1,380,000	1.9
Sorghum, silage	23	tons	6,000	0.2
Potatoes, all	23	hundredweight	1,296,000	0.3
Corn silage	25	tons	910,000	0.9
Livestock & Livestock F	Products			
Beef cow operations	2	number	58,000	7.2
Cattle operations	2	number	68,000	6.6
Beef cows 2/	2	head	2,116,000	6.4
Calf crop	2	head	2,090,000	5.5
All cows 2/	3	head	2,250,000	5.3
Turkeys raised	4	head	25,500,000	9.4
Ice cream (low fat	4	gallons	16,159,000	4.5
Milk cow operations	6	number	3,500	3.8
Hogs & pigs 3/	6	head	3,050,000	5.1
Cattle & calves 2/	6	head	4,500,000	4.7
Hog operations	10	number	2,800	3.7
Total cheese	11	pounds	119,692,000	1.3
Ice cream (regular	11	gallons	21,901,000	2.2
Egg production	13	millions	1,837	2.1
All chickens 4/	15	head	8,555,000	1.9
Sheep operations	16	number	1,600	2.5
Milk cows 2/	17	head	134,000	1.5
Milk production	21	pounds	1,946,000,000	1.1
Cattle & calves on feed	21	head	70,000	0.5
Sheep & lambs 2/	23	head	67,000	1.1
Wool production	23	pounds	395,000	1.0
Honey production	27	pounds	954,000	0.6
		•	30 1,000	0.0

^{1/} Preliminary.
2/ Inventory on hand January 1, 2003.
3/ Inventory on hand December 1, 2002.
4/ Inventory on hand December 1, 2002 (excludes commercial broilers).

Number of Farms, Land in Farms and Average Farm Size, Missouri and United States, 1998-2002 $^{1/}$

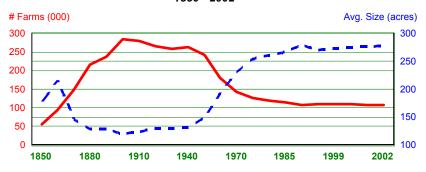
		Missouri		United States			
Year	Number Land of Farms in Farms		Avg. Farm Size	Number of Farms	Land in Farms	Avg. Farm Size	
	-thous	-thous. acres-	-acres-	-thous	-thous. acres-	-acres-	
1998	110	30,100	274	2,191	953,500	435	
1999	110	30,100	274	2,192	947,440	432	
2000	109	30,000	275	2,172	943,090	434	
2001	108	29,900	277	2,156	941,310	437	
2002	107	29,800	279	2,158	941,480	436	

^{1/} A farm is any establishment from which \$1,000 or more of agricultural products were sold or would normally be sold during the year.

Number of Farms: Economic Sales Class; Selected States, and United States, 2002

Number of Farms. Economic Sales Class, Selected States, and Office States, 2002									
		Economic Sales Class							
State	\$1,000-\$9,999	\$10,000-\$99,999	\$100,000 and over	Total					
-	-number-	-number-	-number-	-number-					
Arkansas	26,500	12,000	10,000	48,500					
Illinois	26,000	26,000	24,000	76,000					
Iowa	28,000	36,000	28,500	92,500					
Kansas	22,000	27,500	13,500	63,000					
Kentucky	49,000	33,500	6,500	89,000					
Missouri	61,300	35,400	10,300	107,000					
Nebraska	13,000	20,500	18,500	52,000					
Oklahoma	55,000	26,000	6,000	87,000					
Tennessee	69,000	17,000	4,000	90,000					
United States	1,172,770	637,160	348,160	2,158,090					

Missouri Farms & Average Farm Size



Cash Receipts
Farm Receipts from Sales of Specified Crops and Livestock, Missouri 1999-2002 1/2

Farm Receipts from Sales of				
Commodity	1999	2000	2001	2002
	4 004 040		and dollars-	
All commodities	4,261,240	4,559,866	4,722,690	
Livestock and products	2,485,076	2,680,424		2,302,053
Meat animals	1,326,808	1,636,906		1,252,071
Cattle and calves	870,379	1,044,789	926,286	,
Hogs	452,219	588,080	591,161	
Sheep and lambs	4,210	4,037	3,252	3,623
Dairy products	324,282	269,709	286,229	
Poultry/eggs	798,342	735,812	836,078	774,783
Chicken eggs	72,670	69,940	75,585	76,085
Turkeys	277,200	272,228	270,600	
Miscellaneous livestock	35,644	37,997	41,097	
Honey	1,061	1,035	1,083	
Horses/mules	3/	3/	3/	
Wool	67	43	35	
Aquaculture	4,683	5,085	4,733	
Catfish	2,854	3,117	2,840	
Trout	1,829	1,968	1,893	1,858
Other livestock	29,790	31,760	35,215	34,835
Crops	1,776,164	1,879,442		2,099,830
Food grains	143,725	175,391	143,798	146,002
Rice	58,318	48,788	46,727	
Wheat	85,407	126,604	97,071	103,798
Feed crops	593,463	711,602	822,871	794,375
Corn	436,738	556,669	623,835	614,518
Hay	121,126	117,778	156,197	
Oats	368	846	838	1,257
Sorghum grain	35,231	36,308	42,001	37,379
Cotton	126,819	100,019	121,985	128,650
Cotton lint, all	113,036	79,894	100,176	108,138
Cottonseed	13,783	20,125	21,809	
Tobacco	6,145	7,523	5,877	
Oil crops	743,328	731,092	776,192	866,331
Soybeans	743,145	730,966	775,874	865,812
Vegetables	25,737	25,771	29,430	31,634
Potatoes	9,774	9,213	9,608	
Watermelons	4,452	4,446	4,888	7,691
Fruits/nuts	16,321	13,638	15,246	16,920
Apples	4,770	6,993	6,505	6,782
Fresh	4,112	6,292	5,815	5,733
Processing	658	701	689	1,049
Grapes	1,635	1,636	1,448	1,783
Peaches	4,379	3,325	3,285	
All other crops	120,627	114,406	123,188	111,088
1/ Revised data for 1999-2001; preliminary	data for 2002			

^{1/} Revised data for 1999-2001; preliminary data for 2002.

^{2/} Not published to avoid disclosure of individual operations.

^{3/} Included in other livestock.

Source: Economic Research Service, U.S. Department of Agriculture.

Crop Production, 2001-2002

	Acres Yield Produ							
		Acres		YIE	eld	Produ	ction	
		Harve	ested	Per A	Acre			
Crop	Unit	2001	2002	2001	2002	2001	2002	
		-thousar	nd acres-			-thousan	d units-	
Corn / Grain	bu.	2,600	2,700	133.0	105.0	345,8000	283,500	
Corn / Silage	ton	70	70	16.0	13.0	1,120	910	
Sorghum / Grain	bu.	220	185	94.0	85.0	20,680	15,725	
Sorghum / Silage	ton	3	1	8.0	6.0	24	6.0	
Soybeans	bu.	4,900	5,000	38.0	34.0	186,200	170,000	
Winter Wheat	bu.	760	760	54.00	45.0	41,040	34,200	
Oats	bu.	20	35	50.0	48.0	1,000	1,680	
All Rice 1/	cwt.	207	182	6,000	6,050	12,420	11,011	
Long Grain 1/	cwt.	206	182	6,000	6,050	12,360	11,011	
Medium Grain 1/	cwt.	1.0		5,950		60		
Potatoes	cwt.	5.6	5.4	340	240	1,904	1,296	
Cotton 2/	bale	400	368	834	796	695	610	
Cottonseed	ton					268	229	
Tobacco	lb.	1.3	1.3	2,370	2,350	3,081	3,055	
All Hay	ton	4,050	4,260	1.94	1.84	7,853	7,840	
Alfalfa Hay	ton	450	460	3.05	3.00	1,373	1,380	
Other Hay	ton	3,600	3,800	1.80	1.70	6,480	6,460	
Watermelons	cwt.	5.0	5.1	230	260	1,150	1,326	
Apples 3/	lb.	С		С		41,000	36,000	
Peaches 3/	lb.	С		С		9,000	13,000	
Grapes 3/	ton	С		С		2.30	2.90	

Value of Production, 2001-2002

		Average Va	lue Per Unit	Value of	Production
Crop	Unit	2001	2002	2001	2002
Corn	bu.	1.96	2.45	677,768	694,575
Grain Sorghum	bu.	1.94	2.41	40,740	37,866
Soybeans	bu.	4.32	5.40	804,384	918,000
Winter Wheat	bu.	2.42	3.15	99,317	107,730
Oats	bu.	1.60	1.85	1,600	3,108
All Rice	cwt.	3.70	3.55	45,954	39,089
Potatoes	cwt.	5.10	6.50	9,710	8,424
All Hay	ton	75.00	67.00	551,911	500,640
Alfalfa Hay	ton	107.00	110.00	146,911	151,800
Other Hay	ton	62.50	54.00	405,000	348,840
Cotton	lb.	.300	.430	100,080	125,904
Cottonseed	ton	85.00	95.00	22,780	21,755
Tobacco	lb.	1.895	1.90	5,838	5,805
Watermelons	cwt.	4.25	5.80	4,888	7,691
Apples 1/	lb.	.171	.178	7,017	6,396
Peaches 1/	lb.	.365	.420	3,285	5,460
Grapes 1/	ton	630.00	615.00	1,448	1,783
Total Crops 2/3/				2,376,050	2,484,226

^{1/} Yield in pounds, production in hundredweight. 2/ Yield in pounds, production in 480 lb. bales.

^{3/} Utilized production.

^{1/} Value of utilized production.
2/ Total value of principal crops excluding minor commodities not shown above.
3/ Alfalfa Hay and Other Hay excluded from Total Crops to avoid duplication with All Hay.

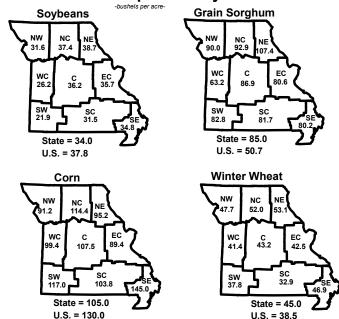
2002 State Rankings and Production of Field Crops

			J				
		Нау	Soy	beans	Corn for Grain		
Rank	State	Production	State	Production	State	Production	
		1,000 tons		1,000 bu.		1,000 bu.	
1	Texas	13,850	Iowa	494,880	Iowa	1,963,500	
2	California	9,594	Illinois	449,780	Illinois	1,496,000	
3	Missouri	7,840	Minnesota	308,850	Minnesota	1,051,900	
4	Kansas	6,965	Indiana	235,750	Nebraska	940,800	
5	Minnesota	6,610	Nebraska	176,330	Indiana	631,620	
6	Nebraska	5,950	Missouri	170,000	Wisconsin	391,500	
7	Iowa	5,645	Ohio	141,300	South Dakota	a 304,000	
8	Idaho	5,608	South	126,790	Kansas	290,000	
9	Kentucky	5,520	Arkansas	96,480	Missouri	283,500	
10	Wisconsin	5,340	North Dakota	86,790	Ohio	252,560	
11	Oklahoma	5,030	Michigan	78,155	Michigan	232,300	
12	South Dakota	4,800	Wisconsin	66,880	Texas	205,660	
13	Montana	4,620	Kansas	58,420	North Dakota	114,425	
14	Tennessee	4,514	Mississippi	43,840	Colorado	112,320	
15	North Dakota	3,920	Kentucky	40,950	Kentucky	106,080	

	Wint	er Wheat	Sorghur	n for Grain	Cotton		
Rank	k State Production		State Production State Production		State	Production 1/	
		1,000 bu.		1,000 bu.		1,000 bales ^{2/}	
1	Kansas	267,300	Kansas	135,000	Texas	5,039	
2	Washington	103,250	Texas	130,050	California	2,010	
3	Oklahoma	98,000	Arkansas	17,710	Mississippi	1,980	
4	Texas	78,300	Missouri	15,725	Arkansas	1,650	
5	Idaho	54,510	Nebraska	15,000	Georgia	1,650	
6	Ohio	50,220	Oklahoma	14,850	Tennessee	813	
7	Nebraska	48,640	Louisiana	13,365	North Carolin	na 790	
8	Arkansas	38,640	Illinois	6,391	Louisiana	750	
9	Colorado	36,300	Mississippi	6,237	Missouri	610	
10	Missouri	34,200	South	3,060	Alabama	575	
11	Michigan	32,830	New Mexico	2,800	Arizona	576	
12	Illinois	31,850	Tennessee	2,480	Oklahoma	200	
13	Oregon	29,110	Colorado	1,800	South	130	
14	California	22,500	Georgia	1,290	New Mexico	114	
15	Montana	21,000	California	1,045	Virginia	99	

^{1/} Production ginned and to be ginned. 2/ 480 lb. net weight bales.

2002 Crop Yields by District



Farmland Values
By District, Missouri, January 1, 1999-2002

Year	NW	NC	NE	wc	С	EC	SW	sc	SE	State
				dol	lars per acı	re				
1999	1,080	840	1,050	1,150	1,070	1,510	1,370	920	1,500	1,130
2000	1,210	930	1,130	1,160	1,270	1,690	1,490	1,020	1,630	1,251
2001	1,360	1,050	1,250	1,210	1,420	1,870	1,630	1,140	1,750	1,380
2002	1,470	1,190	1,370	1,400	1,570	2,050	1,780	1,250	1,870	1,520

Non-Irrigated Cropland Cash Rent per Acre By Districts, Missouri, 1999-2002

				,,		,				
Year	NW	NC	NE	WC	С	EC	SW	SC	SE	State
	dollars per acre									
1999	63.50	56.00	64.00	48.00	49.00	62.00	40.00	48.00	78.00	59.00
2000	72.00	64.00	68.00	50.00	48.00	62.00	40.50	48.00	79.00	62.00
2001	77.00	70.00	71.00	53.00	49.00	66.00	43.00	48.00	80.00	65.00
2002	74.00	68.00	71.00	52.00	51.00	69.00	44.00	50.00	81.00	65.00

Pasture Cash Rent Per Acre By Districts, Missouri, 1999-2002

Year	NW	NC	NE	wc	С	EC	SW	SC	SE	State
				do	ollars per ac	re				
1999	21.00	19.50	20.50	18.50	18.50	18.50	18.50	16.00	19.00	18.50
2000	21.50	20.00	21.50	21.00	21.00	20.50	21.50	16.00	20.00	20.00
2001	24.50	22.50	23.00	24.50	25.50	22.50	24.00	16.00	21.00	22.50
2002	26.00	23.00	24.50	24.00	27.00	23.50	25.00	17.50	22.00	23.60

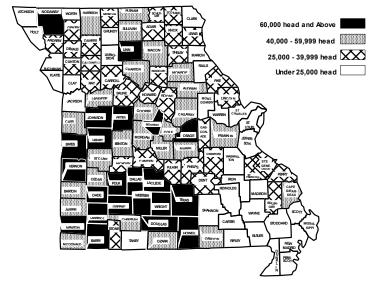
Crop Records for Missouri Acreage, Yield, Production

	Doto		Acreage, i	loia, i		r -			
	Date Series		Acroago		Yield		Total		
Crop	Began	Record	Acreage Harvested	Year [/]	per Acre	Year ^{1/}	Production	Year ^{1/}	Unit
	Dogun	rtccora	-thousands-	1 cui	-units-	rear	-thousands-	ı oui	Oine
Corn-Grain 2/	1919	High	5,993	1925	143.0	2000	396,110	2000	bu.
		Low	1,430	1983	9.3	1934	14,145	1934	bu.
Corn-Silage	1919	High	667	1954	16.0	2001	2,822	1953	tons
		Low	32	1926	2.7	1934	198	1935	tons
Soybeans	1924	High	5,830	1979	38.0	2001	186,200	2001	bu.
		Low	44	1925	5.0	1936	225	1936	bu.
Sorghum for Grain ^{3/}	1929	High	1,410	1985	97.0	1992	117,030	1985	bu.
		Low	23	1951	6.4	1936	167	1936	bu.
Sorghum for Silage	1929	High	144	1957	13.0	1981	1,408	1958	tons
		Low	1	2002	4.1	1936	6	2002	tons
Winter Wheat ^{4/}	1909	High	4,565	1919	54.0	2001	115,500	1981	bu.
		Low	570	1986	8.5	1916	9,035	1942	bu.
Oats	1866	High	2,250	1943	61.0	1997	59,427	1942	bu.
E/		Low	14	1993	10.0	1901	686	1993	bu.
Cotton 5/	1879	High	600	1949	856	1994	695	2001	bales
		Low	32	1879	127	1895	12	1895	bales
Cottonseed	1879	High					234	1996	tons
		Low					5	1895	tons
All Rice	1924	High	207	2001	6,050	2002	12,420	2001	cwt.
		Low	1	1924	1,125	1927	22	1924	cwt.
Tobacco	1866	High	29.0	1877	2,600	1970	28,420	1876	lbs.
		Low	1.3	2002	505	1887	2,340	1918	lbs.
All Hay	1909	High	4,260	2002	2.11	1998	7,853	2001	tons
		Low	2,442	1937	.51	1911	1,567	1911	tons
Alfalfa Hay	1924	High	850	1969	3.25	1998	2,493	1967	tons
		Low	120	1930	1.50	1936	216	1930	tons
All Other Hay	1924	High	3,800	2002	1.95	1998	6,480	2001	tons
		Low	1,982	1959	.53	1934	1,402	1936	tons
Apples	1934	High					116,592	1937	lbs.
		Low					17,934	1936	lbs.
Peaches	1899	High					192,000	1906	lbs.
		Low					6/	1985	lbs.
Grapes	1909	High					11.2	1931	tons
		Low					.9	1985	tons

^{1/} Latest years that records were achieved. In some cases these records were equaled in earlier years.
2/ From 1866 through 1919, corn for grain was included in all corn estimates.
3/ From 1919 through 1929, sorghum for grain was included in all sorghum estimates.
4/ From 1866 through 1909, winter wheat was included in all wheat estimates.
5/ Yield in pounds.
6/ No significant commercial production due to frost.

All Cattle & Calves

By County, January 1, 2003



Livestock on Farms Number and Value, by Species, January 1, 1999-2003

January 1, 1000 2000									
All Cattle	and Calves	All Hog	s and Pigs ^{1/}	All Sheep and Lambs					
Number	Value per Head	Number	Value per Head	Number	Value per Head				
-thous hd-	-dol-	-thous hd-	-dol-	-thous hd-	-dol-				
4,400	550	3,300	40	85	90				
4,350	620	3,150	64	80	94				
4,250	680	2,900	67	73	110				
4,350	670	3,000	68	70	110				
4,500	660	2,950	61	67	110				
	-thous hd- 4,400 4,350 4,250 4,350	+thous hd- 4,400 550 4,350 620 4,250 680 4,350 670	Number Value per Head Number -thous hd- 4,400 -dol- 550 -thous hd- 3,300 4,350 620 3,150 4,250 680 2,900 4,350 670 3,000	Number Value per Head Number Value per Head -thous hd- 4,400 -dol- 550 -thous hd- 3,300 -dol- 40 4,350 620 3,150 64 4,250 680 2,900 67 4,350 670 3,000 68	Number Value per Head Number Value per Head Number -thous hd- 4,400 -dol- 550 -thous hd- 3,300 -dol- 40 -thous hd- 85 4,350 620 3,150 64 80 4,250 680 2,900 67 73 4,350 670 3,000 68 70				

^{1/} December 1 preceding year.

Number of Livestock Operationsby Species, 1998-2002 1/

				· - , ·	
Year	Cattle	Beef Cow	Milk Cow	Hog	Sheep
		-num	nber-		
1998	69,000	59,000	4,300	5,000	2,000
1999	69,000	59,000	4,100	4,000	1,900
2000	68,000	58,000	3,900	3,600	1,800
2001	67,000	57,000	3,700	3,100	1,700
2002	68,000	58,000	3,500	2,800	1,600
	55,555	00,000	0,000	_,	.,

^{1/} One or more head on hand at any time during year.

Livestock and Milk: Inventory, Production, Disposition and Income

Classes	Unit	2001	2002
Cattle and Calves:			
Inventory January 1	thousand head	4,250	4,350
Calf Crop	thousand head	2,060	2,090
Inshipments	thousand head	40.0	36.0
Marketings	thousand head	1,790	1,766
Production	million pounds	1,186.4	1,186.3
Marketings	million pounds	1,085.8	1,059.8
Cash Receipts	thousand dollars	926,287	821,394
Price per 100 lbs.			
Cattle	dollars	76.20	69.40
Calves	dollars	99.50	92.30
Hogs and Pigs:			
Inventory Dec 1 prev year	thousand head	2,900	3,000
Pig Crop	thousand head	6,321	6,214
Inshipments	thousand head	1,590	1,800
Marketings	thousand head	7,394	7,663
Production	million pounds	1,188.5	1,188.5
Marketings	million pounds	1,249.3	1,280.9
Cash Receipts	thousand dollars	591,161	427,053
All Hogs Price per 100 lbs.	dollars	41.30	30.10
Milk Cows and Production of	Milk:		
Milk Cows	thousand head	145	137
Milk per Cow	pounds	13,441	14,204
Total Milk	million pounds	1,949	1,946
Cash Receipts 1/	thousand dollars	286,229	236,037
Price per 100 lbs. of Milk	dollars	14.90	12.30

^{1/} dairy products, only

Eggs Production and Value, 1998-2002

Commercial Broilers Production and Value, 1998-2002

Year ^{1/}	Eggs Produced	Value of Production	Year ^{1/}	Number Produced	Production	Value of Productio
	- billion -	- million dol -		- million head -	- million lbs -	- million dol -
1998	1.732	76.64	1998	255.0	1,096.5	416.67
1999	1.690	72.67	1999	249.7	1,123.7	415.77
2000	1.614	69.94	2000	2/		
2001	1.789	75.59	2001	2/		
2002	1.837	76.08	2002	2/		

^{1/} Estimates cover the 12 month period, beginning December 1 of the previous year through November 30.

Chickens Number on Farms, by Classes, December 1, 1998-2002

		Hens and Pullets of Laying Age		Pullets Not of		
Year	All Chickens (Except Broilers)	Layers 1 Year Old & Older	Layers 20 Weeks Old But Less Than 1 Year	13 Weeks Old or Older But Less Than 20 Weeks	Under 13 Weeks of Age	Other Chickens
			- thousand hea	ad -		
1998	8,810	4,295	2,395	832	1,105	183
1999	8,443	3,330	2,854	412	1,665	182
2000	8,225	3,590	3,075	480	910	170
2001	8,462	3,908	2,955	779	640	180
2002	8,555	3,489	3,272	816	793	185

Turkeys Production and Value, 1998-2002

Year 1/	Number Raised	Pounds Produced ^{2/}	Price per Pound ^{3/}	Value of Production
	-million head-	-million head-	-cents-	-million dollars-
1998	22.0	598.4	40.0	239.36
1999	22.0	616.0	45.0	277.20
2000	23.0	618.7	44.0	272.23
2001	24.0	660.0	41.0	270.60
2002	25.5	782.9	36.0	281.83

^{1/} Based on turkeys placed September 1 previous year through August 31 current year. Excludes young turkeys lost.

^{1/} Estimates cover the 12 month period, beginning December 1 of the previous year through November 30.

^{2/} Not published to avoid disclosure of individual operations.

^{2/} Includes home consumption.

^{3/} Live weight equivalent price.

State Rankings, January 1, 2003

	All Cattle and (Calves	Beef Cov	vs	Milk Cov	Milk Cows	
Rank	State	1,000 Head	State	1,000 Head	State	1,000 Head	
1	Texas	14,000	Texas	5,489	California	1,680	
2	Kansas	6,350	Missouri	2,116	Wisconsin	1,265	
3	Nebraska	6,200	Oklahoma	2,042	New York	680	
4	Oklahoma	5,400	Nebraska	1,934	Pennsylvania	590	
5	California	5,250	South Dakota	1,686	Minnesota	480	
6	Missouri	4,500	Kansas	1,525	Idaho	390	
7	South Dakota	3,700	Montana	1,402	Texas	311	
8	Iowa	3,600	Kentucky	1,120	New Mexico	310	
9	Wisconsin	3,300	Tennessee	1,106	Michigan	301	
10	Colorado	2,650	Iowa	992	Ohio	260	
11	Minnesota	2,470	North Dakota	973	Washington	247	
12	Kentucky	2,430	Florida	953	Iowa	208	
13	Montana	2,400	Arkansas	949	Vermont	153	
14	Tennessee	2,270	California	740	Florida	147	
15	Idaho	2,000	Wyoming	706	Indiana	145	
16	North Dakota	1,880	Colorado	702	Missouri	134	

State Rankings, December 1, 2002

	All Hogs and	Pigs	Hogs for Bre	eding	Market He	ogs
Rank	State	1,000 Head	State	1,000 Head	State	1,000 Head
1	Iowa	15,300	Iowa	1,050	Iowa	14,250
2	North Carolina	9,600	North Carolina	1,000	North Carolina	8,600
3	Minnesota	5,900	Minnesota	580	Minnesota	5,320
4	Illinois	4,050	Illinois	430	Illinois	3,620
5	Indiana	3,150	Nebraska	365	Indiana	2,820
6	Missouri	2,950	Missouri	360	Missouri	2,590
7	Nebraska	2,900	Indiana	330	Nebraska	2,535
8	Oklahoma	2,490	Oklahoma	330	Oklahoma	2,160
9	Kansas	1,530	Colorado	160	Kansas	1,370
10	Ohio	1,440	Kansas	160	Ohio	1,285
11	South Dakota	1,290	Ohio	155	South Dakota	1,150
12	Pennsylvania	1,080	South Dakota	140	Pennsylvania	955
13	Texas	930	Pennsylvania	125	Texas	825
14	Michigan	860	Texas	105	Michigan	760
15	Colorado	790	Michigan	100	Colorado	630

Top Ranking Counties 2002 Crop Production & 2003 Cattle Inventory

	Hay	Soybeans	Corn	Sorghum	Wheat	
1	Polk	Stoddard	Saline	Audrain	Mississippi	
2	Lawrence	Saline	Stoddard	Pemiscot	Stoddard	
3	Greene	Audrain	New Madrid	Barton	New Madrid	
4	Newton	Mississippi	Holt	New Madrid	Barton	
5	Barry	New Madrid	Lafayette	Mississippi	Scott	
6	Bates	Carroll	Nodaway	Dunklin	Bates	
7	Johnson	Chariton	Carroll	Monroe	Pemiscot	
8	Laclede	Lafayette	Mississippi	Dade	Dunklin	
9	Webster	Nodaway	Chariton	Livingston	Vernon	
10	Cass	Butler	Scott	Stoddard	Pettis	
					•	
	Catton	Dies	Tobooo	All Cattle	Poof Cours	Milk Cowe
	Cotton	Rice	Tobacco	All Cattle	Beef Cows	Milk Cows
1	Cotton Dunklin	Rice Butler	Tobacco Platte	All Cattle Lawrence	Beef Cows Texas	Milk Cows Wright
1 2						
	Dunklin	Butler	Platte	Lawrence	Texas	Wright
2	Dunklin New Madrid	Butler Stoddard	Platte Buchanan	Lawrence Howell	Texas Polk	Wright Webster
2	Dunklin New Madrid Pemiscot	Butler Stoddard New Madrid	Platte Buchanan Howard	Lawrence Howell Polk	Texas Polk Lawrence	Wright Webster Lawrence
2 3 4	Dunklin New Madrid Pemiscot Stoddard	Butler Stoddard New Madrid Pemiscot	Platte Buchanan Howard Chariton	Lawrence Howell Polk Texas	Texas Polk Lawrence Barry	Wright Webster Lawrence Laclede
2 3 4 5	Dunklin New Madrid Pemiscot Stoddard	Butler Stoddard New Madrid Pemiscot Dunklin	Platte Buchanan Howard Chariton Clinton	Lawrence Howell Polk Texas Barry	Texas Polk Lawrence Barry Bates	Wright Webster Lawrence Laclede Polk
2 3 4 5 6	Dunklin New Madrid Pemiscot Stoddard	Butler Stoddard New Madrid Pemiscot Dunklin	Platte Buchanan Howard Chariton Clinton	Lawrence Howell Polk Texas Barry Bates	Texas Polk Lawrence Barry Bates Howell	Wright Webster Lawrence Laclede Polk Douglas
2 3 4 5 6 7	Dunklin New Madrid Pemiscot Stoddard	Butler Stoddard New Madrid Pemiscot Dunklin	Platte Buchanan Howard Chariton Clinton	Lawrence Howell Polk Texas Barry Bates Wright	Texas Polk Lawrence Barry Bates Howell Greene	Wright Webster Lawrence Laclede Polk Douglas Texas

Missouri Equine Ranks #3

Results of the statistically sampled survey of Missouri equine enthusiasts, during 2002, indicate Missouri equine inventories may be the third largest in the nation. At 200,000 head, only Texas and California have recorded larger numbers at 600,000 and 240,000 head respectively. Current data on the equine industry remains sketchy as the comparative inventory numbers came from a 1999 survey published by USDA-NASS. Independent analysis of the equine industries does exist although the USDA data were collected across all states using the same methodology during the same time period. For that reason, comparison is made using the USDA data.

Inventory Valued at \$420 million

The estimated value of all equine in Missouri on January 1, 2002 was second only to the cattle and calf industry. At \$420 million, the equine value compares to \$2.9 billion for cattle and calves and well ahead of hogs and pigs valued at \$204 million as of December 1, 2001.

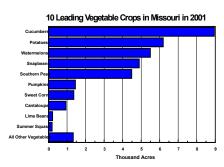
Operating expenses totaled \$200 million for the year 2001, with more than \$80 million for feed and bedding. Forty million dollars were spent on health related expenses. Assets of the state's equine industry were estimated at \$8.5 billion, with land and building accounting for nearly 90 percent of the assets.

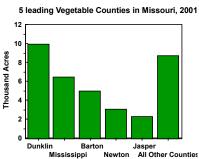
Missouri Equine by Breed - January 2002

Breed	Number	Value(000)
Quarter Horse	76,000	\$160,000
Paint	33,000	\$70,000
Foxtrotter	16,000	\$38,000
Tennessee Walker	9,500	\$24,000
Arabian	8,500	\$21,000
Appaloosa	6,500	\$7,400
Crossbred	6,000	\$9,500
Saddlebred	5,000	\$10,500
Other Light Horse Breeds	12,500	\$39,600
Total Light Horse Breeds	173,000	\$380,000
Race Horse Breeds	4,000	\$17,000
Belgian	2,500	\$3,400
Percheron	1,900	\$2,700
Other Draft Horse Breeds	1,600	\$1,900
Total Draft Horse Breeds	6,000	\$8,000
Miniatures	3,500	\$2,200
Other Pony Breeds	4,500	\$3,300
Total Pony Breeds	8,000	\$5,500
Donkeys, Mules and Burros	9,000	\$9,500
Total All Breeds	200,000	\$420,000

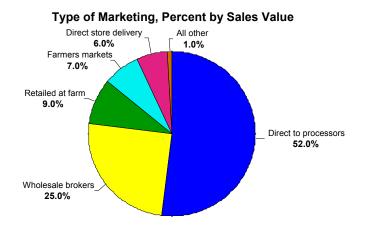
Missouri Vegetable Survey 2001

Missouri vegetable sales during 2001 amounted to over \$32 million from more than 35,600 acres of commercial production. The survey was conducted in cooperation with the University of Missouri, contacting all known commercial vegetable producers. The survey results exclude home garden production for private use. Data was obtained from 426 vegetable growers by mail and telephone follow-up, but no allowance was made for incompleteness for growers who did not participate. Highlights of the survey are as follows:





- ! Average sales value of about \$900 per acre grown
- ! Over 40 different vegetables produced commercially in Missouri
- ! Sixty-five percent of the vegetable acreage was irrigated
- ! Growers produced vegetables on 234 acres using organic practices.
- ! Producers averaged 52.7 years of age and had 14 years of experience.



Agricultural Exports Value and Ranking by Commodity Group, Fiscal Year 2002^{1/}

Commodity Group	United States	Missouri	Ranking			
	-million do	-million dollars-				
Rice	829.3	42.6	6th			
Soybeans and products	7,325.7	471.9	7th			
Feeds and Fodders	1,951.2	55.1	8th			
Feed grains and products	6,779.2	245.6	10th			
Dairy products	1,030.7	16.3	11th			
Cotton and linters	2,052.1	68.4	11th			
Cottonseed and products	97.6	3.5	11th			
Tobacco (unmanufactured)	1,147.4	3.4	14th			
Wheat and products	4,787.1	134.4	14th			
Hides and skins	1,776.0	4.2	21st			
Animal fats, oils, and greases	454.4	1.1	22nd			
Poultry and products	2,279.3	25.6	22nd			
Live animals and meat (excluding poultry)	6,097.4	16.6	26th			
Seeds (excluding cottonseed)	839.2	17.1	NA			
Total Agricultural Exports	53,293.6	1,177.8	15th			

^{1/} Fiscal year, October 1 - September 30.

Source: Economic Research Service, Commodity Economics Division, U.S. Department of Agriculture.

Export Values of Agricultural Commodities Missouri 1999-2002 1/

Commodity	1999-2000	2000-2001	2001-2002	
		-million dollars-		
Wheat and wheat products	120.9	130.5	134.4	
Rice	48.8	43.6	42.6	
Feed grains and grain products	177.8	262.0	245.6	
Soybeans and soybean products	368.6	432.1	471.9	
Cotton and linters	47.6	61.8	68.4	
Cottonseed and cottonseed products	2.5	2.8	3.5	
Tobacco	3.0	3.2	3.4	
Fruit	4.8	3.4	4.4	
Dairy products	17.9	18.8	16.3	
Poultry and products	69.9	76.3	25.6	
Live animals and meat, (excluding poultry)	75.8	80.2	16.6	
Animal fats, oils and greases	3.1	2.1	1.1	
Hides and skins	3.9	5.0	4.2	
Seeds, excluding cottonseed	14.5	16.1	17.1	
Feeds and fodders	56.5	53.4	55.1	
Other (Miscellaneous)	50.2	51.3	56.5	
Total Agricultural Exports	1,073.6	1,250.1	1,177.8	

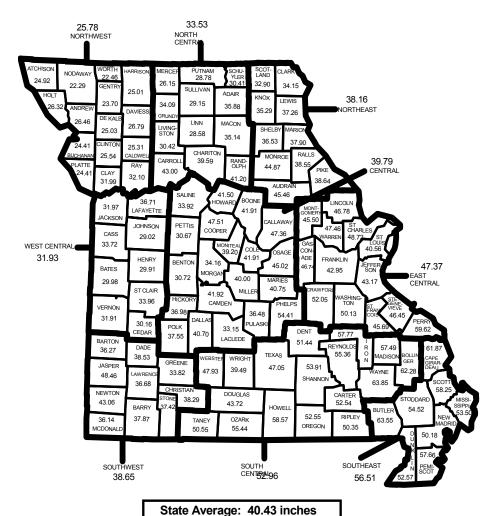
^{1/} Fiscal year, October 1 - September 30.

Source: Economic Research Service, Commodity Economics Division, U.S. Department of Agriculture.

Usual Planting and Harvesting Dates, By Crop and Principal Producing Areas

Crop	Usual Planting Dates	Usu	al Harvesting D	ates	Principal Producing Areas and Counties		
		Begin	Most Active	End			
Corn:							
Grain	Apr 5-Jun 10	Sep 1	Sep 20-Oct 30	Dec 1	Statewide		
Silage	Apr 10-Jun 10	Aug 15	Aug 25-Sep 15	Sep 25	Statewide		
Cotton:	Apr 25-Jun 1	Sep 20	Oct 5-Oct 30	Nov 20	Southeast		
Нау:							
Alfalfa		May 15		Sep 15	Statewide		
Other		May 20		Sep 10	Statewide		
Oats:	Mar 1-Apr 30	Jun 20	Jul 1-Jul 25	Aug 1	Statewide		
Potatoes:	Mar 1-Apr 5	Jun 15	Jun 20-Jul 15	Aug 25	Mississippi, Scott, Atchison		
Rice:	Apr 15-Jun 10	Sep 10	Sep 25-Oct 25	Nov 1	Butler, Stoddard		
Sorghum:							
Grain	Apr 25-Jul 1	Sep 10	Sep 25-Oct 30	Nov 25	Statewide		
Silage	May 1-Jul 1	Aug 15	Aug 25-Sep 15	Oct 10	Statewide		
Soybeans:	May 5-Jul 10	Sep 25	Oct 10-Oct 30	Nov 25	Statewide		
Tobacco:	May 10-Jun 15	Aug 10	Aug 25-Sep 15	Sep 25	Platte, Buchanan		
Wheat:	Sep 20-Nov 20	Jun 15	Jun 20-Jul 10	Jul 20	Statewide		

Missouri Agricultural Statistics Districts 2002 Precipitation *



*Precipitation data represents one location per county and is furnished primarily by the USDA Farm Service Agency county offices.

First and Last Freeze Dates

	First Freeze ¹ Dates	Last Freeze ¹ Dates			
Area/Station	Median	Median			
N a salla					
North	40/40	4/00			
Hamilton	10/10	4/26			
Hannibal	10/21	4/13			
Kirksville	10/12	4/21			
Lexington	10/26	4/10			
Maryville	10/05	4/27			
Princeton	10/06	4/26			
Salisbury	10/14	4/16			
Central					
Camdenton	10/19	4/10			
Clinton	10/19	4/16			
Fredericktown	10/06	4/28			
Jefferson City	10/14	4/17			
Nevada	10/12	4/21			
St. Charles	10/17	4/13			
South					
Cape Girardeau	10/21	4/10			
Caruthersville	11/05	4/01			
Mountain Grove	10/17	4/14			
Neosho	10/10	4/20			
Poplar Bluff	10/28	4/06			
Salem	10/11	4/22			
Springfield	10/18	4/20			
West Plains	10/17	4/16			

^{1/} Probability of 50%, that the Afirst froste will occur before the fall date listed or the Alast froste will occur after the spring date listed.

Source: Midwestern Climate Center, Champaign IL

Missouri Normal Precipitation 1/

Location	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
	•	inches										•	
North													
Hamilton	1.07	1.15	2.72	3.57	4.84	4.18	3.87	3.70	4.63	3.22	2.44	1.63	37.02
Kirksville	1.00	1.13	2.46	3.35	4.96	4.40	4.67	3.63	3.99	3.18	2.71	1.65	37.13
Maryville	.87	.99	2.37	3.16	4.58	4.16	5.24	3.82	4.06	2.97	2.33	1.29	35.84
Monroe City	1.93	2.00	3.26	3.83	4.86	4.15	4.13	3.76	3.39	2.78	3.39	2.61	40.09
Princeton	.90	1.07	2.35	3.53	4.58	4.24	5.11	3.72	3.86	2.96	2.28	1.51	36.11
Salisbury	1.56	1.83	2.88	3.71	5.16	4.58	4.06	3.96	4.49	3.25	3.15	2.29	40.92
Central													
Camdenton	1.76	2.33	3.55	4.29	5.28	3.87	3.77	3.52	4.26	4.10	4.05	2.81	43.59
Clinton	1.57	2.04	3.22	4.03	5.51	5.11	3.87	4.08	4.57	3.76	3.69	2.16	43.57
Columbia	1.73	2.20	3.21	4.16	4.87	4.02	3.80	3.75	3.42	3.18	3.47	2.47	40.28
De Soto	2.46	2.24	3.66	4.07	4.40	3.84	3.40	3.50	3.00	2.70	3.96	3.11	40.34
Fredericktown	2.75	2.58	4.13	4.46	4.72	3.83	3.77	3.85	3.11	3.11	4.80	3.95	45.06
Kansas City	1.15	1.31	2.44	3.38	5.39	4.44	4.42	3.54	4.64	3.33	2.30	1.64	37.98
Nevada	1.67	1.99	3.66	4.31	5.27	5.63	3.96	3.97	4.22	4.18	3.58	2.34	44.78
Rolla	2.21	2.29	3.77	4.18	4.81	3.97	4.40	4.01	3.78	3.50	4.35	3.22	44.49
Warrenton	1.74	1.99	3.22	3.75	4.42	3.86	3.78	2.70	2.81	2.73	3.68	2.41	37.09
South													
Cape Girardeau	3.38	3.44	4.57	4.34	5.09	3.81	3.45	3.28	3.30	3.17	4.50	4.21	46.54
Mtn. Grove	2.35	2.59	4.24	4.43	4.77	4.12	3.92	3.30	4.12	3.59	4.55	3.59	45.57
Neosho	1.97	2.28	3.85	4.35	5.19	5.06	3.28	3.59	4.94	3.97	4.43	2.97	45.88
Poplar Bluff	2.96	3.48	4.71	4.77	4.37	3.96	3.83	3.38	3.37	3.35	4.90	4.32	47.40
Springfield	2.11	2.28	3.82	4.31	4.57	5.02	3.56	3.37	4.83	3.47	4.46	3.17	44.97
West Plains	2.60	3.00	4.80	4.35	4.62	4.33	3.13	3.16	4.02	3.40	4.91	3.97	46.29

1/ Normal period is the average of 1971-2000.
Source: United States Department of Commerce, NOAA, Environmental Data and Information Service.